

Message Text

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ACTION EB-07

INFO OCT-01 CIAE-00 COME-00 DODE-00 NSAE-00 RSC-01 TRSE-00

EUR-12 AEC-05 ISO-00 EA-06 MC-01 ACDA-05 /038 W

----- 029857

R 291643Z NOV 74

FM USMISSION OECD PARIS

TO SECSTATE WASH DC 4525

C O N F I D E N T I A L SECTION 01 OF 02 OECD PARIS 28626

EXCON

E.O. 11652: XGDS1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW: IL 1541 - CATHODE RAY
TUBES

REFS: A. COCOM DOC. REV (74) 7, ADDENDUM

B. COCOM DOC. REV (74) 10.

C. COCOM DOC. REV (74J) 5.

D. STATE 256328

SUMMARY: CRT'S REMANDED TO ROUND II AFTER NOVEMBER 21
COCOM DISCUSSION. VARIOUS PC'S RESERVED ON THE SEVERAL
PROPOSALS FOR DIFFERING REASONS, INCLUDING
PREFERENCE FOR THEIR OWN OR OTHER TABLED PROPOSALS.
ONLY TIME US STOOD ALONE WAS ON THE ISSUE OF THE UK-
PROPOSED DELETION OF SUB-ITEM (A). UK AND CANADA, ON
THE OTHER HAND, OPPOSED THE JAPANESE SUGGESTION OF
DELETING SUB-ITEM (C), BELIEVING THAT EQUIPMENT SHOULD
REMAIN UNDER EMBARGO. ACTION REQUESTED: PREPARATION
OF US POSITION FOR ROUND II. END SUMMARY.

1. SUB-ITEM (A): UK DELEGATION PRESENTED ITS ARGU-
MENT FOR DELETION CLAIMING THAT THE SRM (SHRINKING
RASTER METHOD) OF MEASUREMENT IS MEANINGLESS BECAUSE
IT IS VERY INACCURATE. THEY STATED THAT THE SRM IS
UNSATISFACTORY SINCE THE RESOLVING POWER CAN BE VARIED
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BY CONTROL OF THE BEAM, EITHER MAGNETICALLY OR ELECTRO-

STATICALLY, AND THAT VERY SMALL SPOT SIZES CAN BE OBTAINED ON NORMAL TUBES AT VERY LOW LIGHT LEVELS. THUS, THE RESOLUTION OF ANY TUBE IN QUESTION CAN BE MANIPULATED BY CONTROL OF THESE EXTERNAL CONDITIONS DURING APPLICATION OF THE SRM OF MEASUREMENT.

2. USDEL RECOGNIZED SUBSTANCE OF UK COMMENTS AND NOTED THAT THE SRM OF MEASUREMENT HAS CERTAIN PROBLEMS ASSOCIATED WITH IT. HOWEVER, IT IS STILL THE BEST METHOD AVAILABLE FOR DETERMINING RESOLUTION. UNTIL A BETTER METHOD IS DEvised THE SRM SHOULD BE RETAINED BECAUSE CATHODE RAY TUBES (CRT) WITH HIGH RESOLUTIONS HAVE IMPORTANT MILITARY USES. ALL PC'S APPROVED THE UK PROPOSAL EXCEPT THE US WHICH RESERVED ITS POSITION. THE USDEL ASKED THE UKDEL TO PROVIDE US WITH EXAMPLES OF CRT'S WITH RESOLUTIONS ABOVE THE PRESENT CUT-OFF WHICH HAVE CIVIL APPLICATIONS.

3. SUB-ITEM (B): THE NETHERLANDS INTRODUCED THEIR PROPOSAL BY STATING THAT THE OBJECTIVE WAS TO SET UP A STRUCTURAL DEFINITION IN PLACE OF THE INAPPROPRIATE ONE FOR WRITING SPEED. WRITING SPEED CAN BE DETERMINED MATHEMATICALLY BUT IT CANNOT BE DONE GRAPHICALLY. THEY BELIEVE THIS PROPOSAL IS IN KEEPING WITH THEIR 1584 PROPOSAL. USDEL NOTED THAT UNDER THE CURRENT REGULATION THIS PROPOSAL WOULD FREE CRT'S THAT MIGHT GO INTO OSCILLOSCOPES EMBARGOED UNDER EVEN THE PENDING PROPOSALS 1584 AND RESERVED US POSITION. JAPAN AND ITALY APPROVED, GERMANY APPROVED BUT NOTED IT PREFERRED THE UK PROPOSAL. CANADA AND FRANCE APPROVED AD REF, AND THE UK RESERVED ITS POSITION.

4. UK NOTED ITS PROPOSAL WAS DESIGNED TO MAINTAIN CONTROL OVER CRT'S THAT ARE NOT WITHIN BLOC CAPABILITY. IT BELIEVED THAT ALMOST ANY TUBE CAN PRODUCE A HIGH WRITING SPEED AND THE NETHERLANDS ADDED THAT IT IS NOT CLEAR HOW TO TEST FOR THE WRITING SPEED, DIFFERENT METHODS YIELD DIFFERENT RESULTS. USDEL NOTED THAT THIS WOULD UNEMBARGO CRT'S BEYOND 150 MHZ AND RESERVED US POSITION. FRANCE, ITALY, AND GERMANY APPROVED, CANADA CONFIDENTIAL

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APPROVED AD REF, WHILE JAPAN AND THE NETHERLANDS RESERVED.

5. THE JAPANESE STATED THAT THEIR SUGGESTED FIGURE OF 30,000 KM/SEC WAS BASED ON A MATHEMATICAL FORMULA DESIGNED TO BE IN LINE WITH FREEING 150 MHZ OSCILLOSCOPES. OFF THE RECORD US EXPERT MYERS NOTED THAT HIGH RESOLUTION CRT'S ARE VERY IMPORTANT AND HAVE SIGNIFICANT

APPLICATIONS IN SIDE-LOOKING RADAR SYSTEMS. ITALY

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AND FRANCE APPROVED BUT THE FRENCH DELEGATION THOUGHT THAT THERE STILL WAS A MEASUREMENT PROBLEM. THE FRENCH EXPERT SUGGESTED THAT THE MTF (MODULATION TRANSFER FUNCTION) IS THE "MODERN WAY" AND MIGHT BE EXPLORED AS AN ALTERNATE MEASUREMENT METHOD. GERMANY, CANADA, UK AND THE NETHERLANDS RESERVED. US RESERVED AND STATED THAT THE JAPANESE PROPOSAL WAS CONSISTENT WITH THE 150 MHZ CUT-OFF AND IS THUS RELATED TO 1584. US SAID IT WOULD STUDY THE MTF MEASUREMENT CONCEPT NOTED BY THE FRENCH DELEGATION.

6. SUB-ITEM (C): THE JAPANESE STATED THAT EQUIPMENT UNDER THE SUB-ITEM IS LESS IMPORTANT TODAY BECAUSE NEWER APPLICATIONS UTILIZING THESE TUBES ARE SWITCHING TO A SEMICONDUCTOR APPROACH AND THAT THE ONLY MANUFACTURER IN THE WORLD IS IN THE US. GERMAN, FRENCH, AND ITALIAN DELS ACCEPTED, AND DUTCH WERE OPEN MINDED. USDEL NOTED OVERWHELMING MILITARY UTILIZATION OF TUBES CONCERNED AND RESERVED, EXPRESSING PREFERENCE FOR CONTINUATION OF COVERAGE. UKDEL THEREUPON ASKED, SINCE ALL PRODUCTION SEEMED TO BE IN US, WHETHER UNILATERAL CONTROL MIGHT NOT BE SUFFICIENT. WHILE RESERVING RIGHT TO MODIFY POSITION AFTER ISSUE HAD BEEN STUDIED BY HIS

AUTHORITIES, USDEL NOTED THAT US WAS ONE OF FEW COUNTRIES
TO APPLY RE-EXPORT LICENSING REQUIREMENT AND POINTED
OUT THAT FOR COMMODITIES NOT SUBJECT TO COCOM EMBARGO
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US HAD TYPICALLY RECEIVED LITTLE COOPERATION FROM OTHER
PCS IN ENFORCEMENT OF SUCH REEXPORT CONTROLS. FOR
THIS REASON HE BELIEVED US WOULD NOT WISH TO RELY ONLY
ON UNILATERAL CONTROL. IN LIGHT OF FOREGOING, CANADIAN
DEL RESERVED AND ASKED WHETHER JAPANESE WOULD NOT WISH
TO WITHDRAW THEIR PROPOSAL. UK RESERVED AND
ASSOCIATED HIMSELF WITH CANADIAN SUGGESTION (AS DID
US, OFF THE RECORD). JAPANESE INDICATED THEY WOULD
RESTDY STUDY THEIR PROPOSAL AND TAKE POSITION ON CANADIAN
SUGGESTION FOR ROUND II.

7. ACTION REQUESTED: REFERENCED MTF METHOD SHOULD BE
REVIEWED BY THE TTG AND A USG POSITION SHOULD BE
ESTABLISHED FOR 1584 WHICH REALLY "DOMINATES" THIS
ITEM. INSTRUCT, AS WELL, ON UK SUGGESTION FOR
UNILATERAL CONTROL ON SUB-ITEM (C).

8. COMMENT: MOST DELEGATIONS REMAIN FAIRLY OPEN-
MINDED ON THIS ITEM AND AGREE THAT IT IS TIED TO
1584.
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